Jack Liu

jack.liuzijia@gmail.com | GitHub | LinkedIn | Personal Website | 604-715-9518

EXPERIENCE

BITGO • Software Engineering Intern

May 2023 – Aug 2023 (Ongoing)

- Constructed 3 complete data pipelines over 10 TB of market and trade data to the Snowflake data warehouse using Kafka, Amazon Simple Storage Service, and Apache Airflow
- · Revamped and maintained over 15 functions to help clients quickly fetch desired data using SQL and Python
- · Implemented data hashing using **Debezium** to hide sensitive user data from analytics processes

JAMLABS DATA SCIENCE • Software Engineering Intern

Sep 2022 - Dec 2022

- · Conserved **over half** of file retrieval costs by allowing users to query CSV and Parquet data through API calls to only select their required rows of data using **ExpressJS** and **AWS Athena** queries
- Established customer email verifications using AWS Simple Email Service to send email-validating links containing
 Scrypt security tokens to all newly registered accounts
- · Implemented a trial account with ExpressJS backend and ReactJS frontend for product demostrations
- · Provided company admins with overarching functions to manage all sub-accounts in one place with AWS Lambdas

AXONIFY • Software Engineering Intern

Jan 2022 – Apr 2022

- Enhanced product accessibility and user engagement by adding an **automatic translation system** to Axonify's timeline with **Java** and **Google Cloud Translation API** for non-English speakers
- · Implemented a **cache system** for frequent translations with **Java** and **SQL** to improve product efficiency and cost and created options to edit cache settings or clear cache
- · Revamped the error messaging system to accurately describe problems for customers on the browser application

AXONIFY • Software Developer Intern

May 2021 - Aug 2021

- Effectively **conserved cloud storage** space by implementing an automatic file purging process to delete infrequently accessed or outdated upload files using **Java's JDBC** library and **SQL**
- Streamlined purging legacy code and updating Java Mockito unit tests with Python scripts across the code base
- · Improved customer security by enforcing a minimum password strength based on permissions with Python

PROJECTS

Crypto and Stock Price Tracker

Sep 2022 – Nov 2022

- Fetched current cryptocurrency and stock prices with a web scraper in NodeJS and Cheerio to store and update in JSON format
- · Displayed real-time prices on a ReactJS app with links to purchase said cryptocurrencies and stocks

Personal Website

Aug 2022 – Sep 2022

· Created a JavaScript website with ReactJS and hosted it on Netlify to present my projects, resume, and portfolio

Automated Bots for Discord and Twitter

Apr 2020 – Sep 2020

- Developed bots for **Discord** and **Twitter** with **Python** to integrate YouTube Music, track statistics, and respond to users mentions
- · Maximized availability of the bots with Heroku hosting

SKILLS

Languages: C++, Java, C, JavaScript, Python, HTML/CSS, SQL

Technologies: Git, AWS, Unix, Terraform, Docker, DBT, ReactJS, Apache Airflow

EDUCATION